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T	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
APPLICATION NO.	FILING DATE		14309	6365
09/778,258	02/07/2001	Shigeto Inui	14309	
2220 75	90 02/06/2004		EXAMINER	
SCULLY SCO	OTT MURPHY & PR	NGO, CHUONG D		
400 GARDEN CITY PLAZA			ART UNIT	PAPER NUMBER
GARDEN CITY	Y, NY 11530		2124	
•			DATE MAILED: 02/06/200	14 6

Please find below and/or attached an Office communication concerning this application or proceeding.

r	Application No.	Applicant(s)				
Office Assistant Communication	09/778,258	INUI, SHIGETO				
Office Action Summary	Examiner	Art Unit				
	Chuong D Ngo	2124				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timy within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status	04 0/45/04 0 44/0/00					
	Responsive to communication(s) filed on $\underline{2/7/01}$, $\underline{3/15/01}$ & $\underline{11/3/03}$.					
,	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-4 is/are pending in the application.	Claim(s) <u>1-4</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.	Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-4</u> is/are rejected.	☑ Claim(s) <u>1-4</u> is/are rejected.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ acc	0)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. §§ 119 and 120						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) The translation of the foreign language provisional application has been received.						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.						
Attachment(s)						
(a) Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s) (b) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152) (b) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4 5 5 6 ☐ Other: 6 ☐ Other:						

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DETAILED ACTION

1. The abstract of the disclosure is objected to because it is not within a single paragraph.

Correction is required. See MPEP § 608.01(b).

2. Claims 1-4 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

As per claim 1, the recitation "a range of $1/2^k$ or more and less than $1/2^{k+1}$ ", lines 3-4, is indefinite since $1/2^k > 1/2^{k+1}$. Claim 3 also has the same problem.

As per claim 2, the recitation "a range of $5/3 \times 1/2^k$ or more and less than $3/4 \times 1/2^k$ ", lines 3-4, is indefinite since $5/3 \times 1/2^k > 3/4 \times 1/2$. Claim 4 also has the same problem.

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

4. Claims 1 and 3 are rejected under 35 U.S.C. 102(a) as being clearly anticipated by applicant's admission of prior art disclosed in figures 4 and 5 of the instant application.

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The admitted prior art in figures 4 and 5 clearly show a divider having a scaling factor generating section (11), a multiplying section (21,31), a divisor tripled-number generating section (41) a repetitive operating section (51) for producing a quotient, as shown in figure 5, by generating and referring to high-order of 4-bit partial remainder ([0]-[3]) as claimed.

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - a. Steele, Jr., 5,910,910.
 - b. Sheaffer, 5,818,745.
 - c. Chung, 5,777,917.
 - d. Stearns, 4,949,295.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chuong D Ngo whose telephone number is (703) 305-9764. The examiner can normally be reached on Tuesday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki can be reached on (703) 309-9662. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

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Chuong D Ngo Primary Examiner Art Unit 2124

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